



10/065108

COJC

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of

BUNKER

Atty. Ref.: 839-1331

Patent No. 6,761,031 *b2*

Issued: Jul. 13, 2004

For: DOUBLE WALL COMBUSTOR LINER SEGMENT WITH
ENHANCED COOLING

* * * * *

August 18, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Certificate
AUG 23 2004
of Correction

REQUEST FOR A CERTIFICATE OF CORRECTION

The patentee in the above-identified patent hereby requests that the Patent and Trademark Office issue an official Certificate of Correction pursuant to 37 C.F.R. § 1.322 for the following errors made by the Patent Office. The Examiner erroneously renumbered the claims after allowance. Since claim 8 depends from claim 9, the claims must be renumbered to comply with 37 C.F.R. § 1.75. Specifically, patent claim 9 should be renumbered as claim 8, patent claim 8 should be renumbered as claim 9, and patent claims 9, 10, 11, and 12 should be amended to depend from claim 8.

Since the error arose on the part of the Patent and Trademark Office, no fee is believed necessary for securing issuance of the Certificate.

Attached hereto is a draft Official Certificate of Correction for use by the Patent and Trademark Office correcting the above-identified matter.

AUG 24 2004

BUNKER
Patent No. 6,761,031

The Commissioner is hereby authorized to charge any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our **Account No. 14-1140**. A duplicate copy of this sheet is attached.

Respectfully submitted,

NIXON & VANDERHYE P.C.

By: 
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UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 6,761,031 *B2*
DATED : Jul. 13, 2004
INVENTOR(S) : BUNKER

It is certified that error appears in the above-identified patent and that said letters patent is hereby corrected as shown below:

Renumber and/or amend Claims 8-12 as follows:

8. A connector segment for connecting a combustor liner and a transition piece in a gas turbine, the connector segment comprising a cylindrical double-walled body including radially inner and outer walls and a plurality of cooling channels extending for receiving cooling air flow, said cooling channels extending axially along the segment, between said radially inner and outer walls, said cooling channels defined in part by radially inner and outer surfaces; a plurality of axially spaced holes in said outer wall communicating with said plurality of cooling channels wherein both of said radially inner and outer surfaces are formed with an array of concavities; and wherein said cooling channels have an aspect ratio of from 0.2 to 1 and a ratio of channel height to concavity diameter is in a range of 0.25 to 5; and further wherein a center-to-center distance between adjacent concavities is equal to about 1.1-2D.
9. The connector segment of claim 8 wherein said ratio of channel height to concavity diameter is in a range of .5 to 1.
10. The connector segment of claim 8 wherein said concavities are semispherical in shape
11. The connector segment of claim 8 wherein said concavities are arranged in staggered rows.
12. The connector segment of claim 8 wherein said concavities are circular, and have a diameter D, and wherein a depth of said concavities is equal to about 0.10 to 0.50D.

MAILING ADDRESS OF SENDER:

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6,761,031 *B2*

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8. A connector segment for connecting a combustor liner and a transition piece in a gas turbine, the connector segment comprising a cylindrical double-walled body including radially inner and outer walls and a plurality of cooling channels extending for receiving cooling air flow, said cooling channels extending axially along the segment, between said radially inner and outer walls, said cooling channels defined in part by radially inner and outer surfaces; a plurality of axially spaced holes in said outer wall communicating with said plurality of cooling channels wherein both of said radially inner and outer surfaces are formed with an array of concavities; and wherein said cooling channels have an aspect ratio of from 0.2 to 1 and a ratio of channel height to concavity diameter is in a range of 0.25 to 5; and further wherein a center-to-center distance between adjacent concavities is equal to about 1.1-2D.
9. The connector segment of claim 8 wherein said ratio of channel height to concavity diameter is in a range of .5 to 1.
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11. The connector segment of claim 8 wherein said concavities are arranged in staggered rows.
12. The connector segment of claim 8 wherein said concavities are circular, and have a diameter D, and wherein a depth of said concavities is equal to about 0.10 to 0.50D.

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